

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listing of claims in the application:

LISTING OF CLAIMS:

Claim 1 (Currently amended) An array configuration for a multiple disk-arrays system containing at least one disk array of a plurality of disks, each disk having an array configuration sector comprising:

an array signature field for identifying a said disk as being in said disk array or in a span array;

an array information field for recording at least one setting and at least one status of said disk array;

a disk information field for recording at least one information in ~~each said disk of each disk array~~; and

a plurality of serial check sum fields respectively corresponding to all of the disks of said disk array, each of said plurality of checksum fields being respectively based on information in said disk information field of each a corresponding one of said plurality of disks of in said same disk array.

Claim 2 (Currently amended) The array configuration as in claim 1, wherein said array configuration sector is ~~arranged~~ located at ~~said a last of a~~

plurality of sectors of a said disk in a said disk array.

Claim 3 (Currently amended) The array configuration as in claim 1, further comprising a version identification field used to record a version of firmware and software ~~in~~ of said disk array.

Claim 4 (Original) The array configuration as in claim 1, wherein said array signature field has size of one word (16 bits).

Claim 5 (Original) The array configuration as in claim 1, wherein said array signature field is a specific value.

Claim 6 (Currently amended) An ~~The~~ array configuration ~~as in claim 1,~~
~~wherein~~ for a multiple disk-arrays system containing at least one disk array of a
plurality of disks, each disk having an array configuration sector comprising:

an array signature field for identifying a disk in said disk array or in
a span array;

an array information field for recording at least one setting and at
least one status of said disk array;

a disk information field for recording at least one information in said
disk;

a plurality of first serial check sum fields respectively corresponding to all of the disks of said disk array, each of said plurality of first check sum fields being respectively based on ~~said serial check sum of each disk in disk array is~~ numerated from a model number, a serial number, and a firmware revision number in said disk information field of a corresponding one said disks in said disk array;
and,

a second checksum field based on said fields of said array configuration sector.

Claim 7 (Currently amended) The array configuration as in claim [[6]] 1, wherein each of said plurality serial check sum fields of each disk has size of one double word (32 bits).

Claim 8 (Currently amended) The array configuration as in claim 1, wherein said array information field comprises bits representing an array type ~~field~~, an array disk number ~~field~~ and an available disk capacity ~~field~~.

Claim 9 (Currently amended) The array configuration as in claim 8, wherein said array type ~~field has size of~~ is defined by 4 bits and has a specific value to denote a specific array type.

Claim 10 (Currently amended) The array configuration structure as in claim 8, wherein said array disk number ~~field has size of~~ is defined by 3 bits to denote a disk number in a disk array.

Claim 11 (Currently amended) The array configuration as in claim 8, wherein said available disk capacity ~~field has size of~~ is defined by a double word (32 bits) to denote an available disk capacity for each disk in a disk array.

Claim 12 (Currently amended) The array configuration as in claim 8, wherein said array information field further comprising comprises an array broken flag.

Claim 13 (Currently amended) The array configuration as in claim 8, wherein said array information field further comprising comprises bits representing a size filed of a recoded data stripe.

Claim 14 (Currently amended) The array configuration as in claim 13, wherein ~~said size filed has size of~~ 4 bits represent said size of the recorded stripe.

Claim 15 (Currently amended) The array configuration as in claim 8, wherein said array information field further comprising comprises bits

representing a serial number ~~field~~ to denote a sequence of arrays in said multiple disk-array system.

Claim 16 (Currently amended) The array configuration as in claim 15, wherein ~~said serial number field has size of 3 bits~~ represent said serial number.

Claim 17 (Currently amended) The array configuration as in claim 1, wherein said disk information field comprises bits representing a boot field designation, an enhanced field designation, a serial check sum ~~field~~ and a disk sequence/function ~~field~~.

Claim 18 (Currently amended) The array configuration as in claim 17, wherein said serial check sum of said disk information field has a size of 32 bits.

Claim 19 (Currently amended) The array configuration as in claim 17, wherein said disk sequence/function ~~field~~ has size of 5 bits.

Claim 20 (Currently amended) The array configuration structure as in claim 1, further comprising an array serial check sum field.

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Claim 21 (Currently amended) The array configuration as in claim 20,
wherein said array serial check sum field has size of 1 byte.